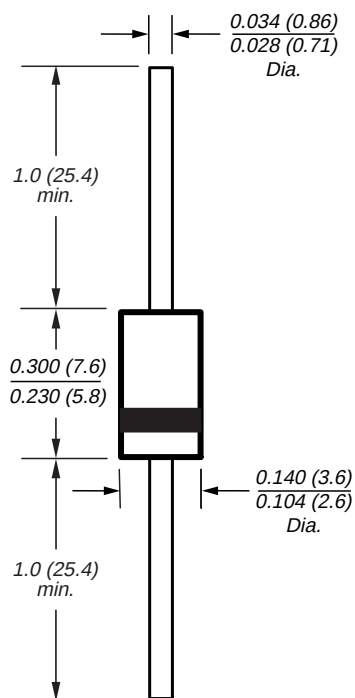
**TRANSZORB® Transient Voltage Suppressors****Stand Off Voltage** 5.0 to 170V  
**Peak Pulse Power** 500W**DO-204AC (DO-15)**

Dimensions in inches and (millimeters)

**Features**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction
- Excellent clamping capability
- Low incremental surge resistance
- Very fast response time
- 500W peak pulse power surge capability with a 10/100 $\mu$ s waveform, repetition rate (duty cycle): 0.01%
- High temperature soldering guaranteed: 265°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

**Mechanical Data****Case:** JEDEC DO-204AC molded plastic body over passivated junction**Terminals:** Solder plated axial leads, solderable per MIL-STD-750, Method 2026**Polarity:** For unidirectional types the color band denotes the cathode, which is positive with respect to the anode under normal TVS operation**Mounting Position:** Any **Weight:** 0.015 oz., 0.4 g**Packaging Codes – Options (Antistatic):**

- 51 – 1K per Bulk box, 10K/carton
- 54 – 4K per 13" paper Reel (52mm horiz. tape), 12K/carton
- 73 – 2K per horiz. tape & Ammo box, 20K/carton

**Devices for Bidirectional Applications**

For bidirectional use C or CA suffix. (e.g. SA5.0C, SA170CA). Electrical characteristics apply in both directions.

**Maximum Ratings and Thermal Characteristics** Ratings at 25°C ambient temperature unless otherwise specified.

| Parameter                                                                                           | Symbol                            | Value          | Unit |
|-----------------------------------------------------------------------------------------------------|-----------------------------------|----------------|------|
| Peak pulse power dissipation with a 10/1000 $\mu$ s waveform <sup>(1)</sup> (Fig. 1)                | P <sub>PPM</sub>                  | 500 (min.)     | W    |
| Peak pulse current with a 10/1000 $\mu$ s waveform (Note 1)                                         | I <sub>PPM</sub>                  | See Next Table | A    |
| Steady state power dissipation at T <sub>A</sub> = 75°C lead lengths, 0.375" (9.5mm) <sup>(2)</sup> | P <sub>M(AV)</sub>                | 3.0            | W    |
| Peak forward surge current, 10ms single half sine-wave unidirectional only                          | I <sub>FSM</sub>                  | 70             | A    |
| Maximum instantaneous forward voltage at 35A for unidirectional only                                | V <sub>F</sub>                    | 3.5            | V    |
| Operating junction and storage temperature range                                                    | T <sub>J</sub> , T <sub>STG</sub> | -55 to +175    | °C   |

**Notes:** (1) Non-repetitive current pulse, per Fig. 3 and derated above T<sub>A</sub> = 25°C per Fig. 2.

(2) Mounted on copper pad area of 1.6 x 1.6" (40 x 40mm) per Fig. 5.

(3) 8.3ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

**Electrical Characteristics** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

| Device Type           | Breakdown Voltage<br>$V_{(BR)}$ at $I_T^{(1)}$<br>(V) |      | Test<br>Current<br>$I_T$<br>(mA) | Stand-off<br>Voltage<br>$V_{WM}$<br>(V) | Maximum<br>Reverse<br>Leakage<br>at $V_{WM}$<br>$I_D^{(3)}$ ( $\mu\text{A}$ ) | Maximum<br>Peak Pulse<br>Current<br>$I_{PPM}^{(2)}$<br>(A) | Maximum<br>Clamping<br>Voltage at<br>$I_{PPM}$<br>$V_C$ (V) | Maximum<br>Temperature<br>Coefficient<br>of $V_{(BR)}$<br>(mV / $^\circ\text{C}$ ) |
|-----------------------|-------------------------------------------------------|------|----------------------------------|-----------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------|
|                       | MIN                                                   | MAX  |                                  |                                         |                                                                               |                                                            |                                                             |                                                                                    |
| SA5.0                 | 6.40                                                  | 7.30 | 10                               | 5.0                                     | 600                                                                           | 52.1                                                       | 9.6                                                         | 5.0                                                                                |
| SA5.0A <sup>(4)</sup> | 6.40                                                  | 7.07 | 10                               | 5.0                                     | 600                                                                           | 54.3                                                       | 9.2                                                         | 5.0                                                                                |
| SA6.0                 | 6.67                                                  | 8.15 | 10                               | 6.0                                     | 600                                                                           | 43.9                                                       | 11.4                                                        | 5.0                                                                                |
| SA6.0A                | 6.67                                                  | 7.37 | 10                               | 6.0                                     | 600                                                                           | 48.5                                                       | 10.3                                                        | 5.0                                                                                |
| SA6.5                 | 7.22                                                  | 8.82 | 10                               | 6.5                                     | 400                                                                           | 40.7                                                       | 12.3                                                        | 5.0                                                                                |
| SA6.5A                | 7.22                                                  | 7.98 | 10                               | 6.5                                     | 400                                                                           | 44.7                                                       | 11.2                                                        | 5.0                                                                                |
| SA7.0                 | 7.78                                                  | 9.51 | 10                               | 7.0                                     | 150                                                                           | 37.6                                                       | 13.3                                                        | 6.0                                                                                |
| SA7.0A                | 7.78                                                  | 8.60 | 10                               | 7.0                                     | 150                                                                           | 41.7                                                       | 12.0                                                        | 6.0                                                                                |
| SA7.5                 | 8.33                                                  | 10.2 | 1.0                              | 7.5                                     | 50                                                                            | 35.0                                                       | 14.3                                                        | 7.0                                                                                |
| SA7.5A                | 8.33                                                  | 9.21 | 1.0                              | 7.5                                     | 50                                                                            | 38.8                                                       | 12.9                                                        | 7.0                                                                                |
| SA8.0                 | 8.89                                                  | 10.9 | 1.0                              | 8.0                                     | 25                                                                            | 33.3                                                       | 15.0                                                        | 7.0                                                                                |
| SA8.0A                | 8.89                                                  | 9.83 | 1.0                              | 8.0                                     | 25                                                                            | 36.8                                                       | 13.6                                                        | 7.0                                                                                |
| SA8.5                 | 9.44                                                  | 11.5 | 1.0                              | 8.5                                     | 10                                                                            | 31.4                                                       | 15.9                                                        | 8.0                                                                                |
| SA8.5A                | 9.44                                                  | 10.4 | 1.0                              | 8.5                                     | 10                                                                            | 34.7                                                       | 14.4                                                        | 8.0                                                                                |
| SA9.0                 | 10.0                                                  | 12.2 | 1.0                              | 9.0                                     | 5.0                                                                           | 29.6                                                       | 16.9                                                        | 9.0                                                                                |
| SA9.0A                | 10.0                                                  | 11.1 | 1.0                              | 9.0                                     | 5.0                                                                           | 32.5                                                       | 15.4                                                        | 9.0                                                                                |
| SA10                  | 11.1                                                  | 13.6 | 1.0                              | 10.0                                    | 1.0                                                                           | 26.6                                                       | 18.8                                                        | 10.0                                                                               |
| SA10A                 | 11.1                                                  | 12.3 | 1.0                              | 10.0                                    | 1.0                                                                           | 29.4                                                       | 17.0                                                        | 10.0                                                                               |
| SA11                  | 12.2                                                  | 14.9 | 1.0                              | 11.0                                    | 1.0                                                                           | 24.9                                                       | 20.1                                                        | 11.0                                                                               |
| SA11A                 | 12.2                                                  | 13.5 | 1.0                              | 11.0                                    | 1.0                                                                           | 27.5                                                       | 18.2                                                        | 11.0                                                                               |
| SA12                  | 13.3                                                  | 16.3 | 1.0                              | 12.0                                    | 1.0                                                                           | 22.7                                                       | 22.0                                                        | 12.0                                                                               |
| SA12A                 | 13.3                                                  | 14.7 | 1.0                              | 12.0                                    | 1.0                                                                           | 25.1                                                       | 19.9                                                        | 12.0                                                                               |
| SA13                  | 14.4                                                  | 17.6 | 1.0                              | 13.0                                    | 1.0                                                                           | 21.0                                                       | 23.8                                                        | 13.0                                                                               |
| SA13A                 | 14.4                                                  | 15.9 | 1.0                              | 13.0                                    | 1.0                                                                           | 23.3                                                       | 21.5                                                        | 13.0                                                                               |
| SA14                  | 15.6                                                  | 19.1 | 1.0                              | 14.0                                    | 1.0                                                                           | 19.4                                                       | 25.8                                                        | 14.0                                                                               |
| SA14A                 | 15.6                                                  | 17.2 | 1.0                              | 14.0                                    | 1.0                                                                           | 21.6                                                       | 23.2                                                        | 14.0                                                                               |
| SA15                  | 16.7                                                  | 20.4 | 1.0                              | 15.0                                    | 1.0                                                                           | 18.6                                                       | 26.9                                                        | 16.0                                                                               |
| SA15A                 | 16.7                                                  | 18.5 | 1.0                              | 15.0                                    | 1.0                                                                           | 20.5                                                       | 24.4                                                        | 16.0                                                                               |
| SA16                  | 17.8                                                  | 21.8 | 1.0                              | 16.0                                    | 1.0                                                                           | 17.4                                                       | 28.8                                                        | 19.0                                                                               |
| SA16A                 | 17.8                                                  | 19.7 | 1.0                              | 16.0                                    | 1.0                                                                           | 19.2                                                       | 26.0                                                        | 17.0                                                                               |
| SA17                  | 18.9                                                  | 23.1 | 1.0                              | 17.0                                    | 1.0                                                                           | 16.4                                                       | 30.5                                                        | 20.0                                                                               |
| SA17A                 | 18.9                                                  | 20.9 | 1.0                              | 17.0                                    | 1.0                                                                           | 18.1                                                       | 27.6                                                        | 19.0                                                                               |
| SA18                  | 20.0                                                  | 24.4 | 1.0                              | 18.0                                    | 1.0                                                                           | 15.5                                                       | 32.2                                                        | 21.0                                                                               |
| SA18A                 | 20.0                                                  | 22.1 | 1.0                              | 18.0                                    | 1.0                                                                           | 17.1                                                       | 29.2                                                        | 20.0                                                                               |
| SA20                  | 22.2                                                  | 27.1 | 1.0                              | 20.0                                    | 1.0                                                                           | 14.0                                                       | 35.8                                                        | 25.0                                                                               |
| SA20A                 | 22.2                                                  | 24.5 | 1.0                              | 20.0                                    | 1.0                                                                           | 15.4                                                       | 32.4                                                        | 23.0                                                                               |
| SA22                  | 24.4                                                  | 29.8 | 1.0                              | 22.0                                    | 1.0                                                                           | 22.7                                                       | 39.4                                                        | 28.0                                                                               |
| SA22A                 | 24.4                                                  | 26.9 | 1.0                              | 22.0                                    | 1.0                                                                           | 14.1                                                       | 35.5                                                        | 25.0                                                                               |
| SA24                  | 26.7                                                  | 32.6 | 1.0                              | 24.0                                    | 1.0                                                                           | 11.6                                                       | 43.0                                                        | 31.0                                                                               |
| SA24A                 | 26.7                                                  | 29.5 | 1.0                              | 24.0                                    | 1.0                                                                           | 12.9                                                       | 38.9                                                        | 28.0                                                                               |
| SA26                  | 28.9                                                  | 35.3 | 1.0                              | 26.0                                    | 1.0                                                                           | 10.7                                                       | 46.6                                                        | 31.0                                                                               |
| SA26A                 | 28.9                                                  | 31.9 | 1.0                              | 26.0                                    | 1.0                                                                           | 11.9                                                       | 42.1                                                        | 30.0                                                                               |
| SA28                  | 31.1                                                  | 38.0 | 1.0                              | 28.0                                    | 1.0                                                                           | 10.0                                                       | 50.1                                                        | 35.0                                                                               |
| SA28A                 | 31.1                                                  | 34.4 | 1.0                              | 28.0                                    | 1.0                                                                           | 11.0                                                       | 45.4                                                        | 31.0                                                                               |
| SA30                  | 33.3                                                  | 40.7 | 1.0                              | 30.0                                    | 1.0                                                                           | 9.3                                                        | 53.5                                                        | 39.0                                                                               |
| SA30A                 | 33.3                                                  | 36.8 | 1.0                              | 30.0                                    | 1.0                                                                           | 10                                                         | 48.4                                                        | 36.0                                                                               |
| SA33                  | 36.7                                                  | 44.9 | 1.0                              | 33.0                                    | 1.0                                                                           | 8.5                                                        | 59.0                                                        | 42.0                                                                               |
| SA33A                 | 36.7                                                  | 40.6 | 1.0                              | 33.0                                    | 1.0                                                                           | 9.4                                                        | 53.3                                                        | 39.0                                                                               |
| SA36                  | 40.0                                                  | 48.9 | 1.0                              | 36.0                                    | 1.0                                                                           | 7.8                                                        | 64.3                                                        | 46.0                                                                               |
| SA36A                 | 40.0                                                  | 44.2 | 1.0                              | 36.0                                    | 1.0                                                                           | 8.6                                                        | 58.1                                                        | 41.0                                                                               |
| SA40                  | 44.4                                                  | 54.3 | 1.0                              | 40.0                                    | 1.0                                                                           | 7.0                                                        | 71.4                                                        | 51.0                                                                               |
| SA40A                 | 44.4                                                  | 49.1 | 1.0                              | 40.0                                    | 1.0                                                                           | 7.8                                                        | 64.5                                                        | 46.0                                                                               |

**Electrical Characteristics** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

| Device Type | Breakdown Voltage<br>$V_{BR}$ at $I_T^{(1)}$<br>(V) |      | Test<br>Current<br>$I_T$<br>(mA) | Stand-off<br>Voltage<br>$V_{WM}$<br>(V) | Maximum<br>Reverse<br>Leakage<br>at $V_{WM}$<br>$I_D^{(3)}$ ( $\mu\text{A}$ ) | Maximum<br>Peak Pulse<br>Current<br>$I_{PPM}^{(2)}$<br>(A) | Maximum<br>Clamping<br>Voltage at<br>$I_{PPM}$<br>$V_C$ (V) | Maximum<br>Temperature<br>Coefficient<br>of $V_{BR}$<br>(mV / $^\circ\text{C}$ ) |
|-------------|-----------------------------------------------------|------|----------------------------------|-----------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------|
|             | MIN                                                 | MAX  |                                  |                                         |                                                                               |                                                            |                                                             |                                                                                  |
| SA43        | 47.8                                                | 58.4 | 1.0                              | 43.0                                    | 1.0                                                                           | 6.5                                                        | 76.7                                                        | 55.0                                                                             |
| SA43A       | 47.8                                                | 52.8 | 1.0                              | 43.0                                    | 1.0                                                                           | 7.2                                                        | 69.4                                                        | 50.0                                                                             |
| SA45        | 50.0                                                | 61.1 | 1.0                              | 45.0                                    | 1.0                                                                           | 6.2                                                        | 80.3                                                        | 58.0                                                                             |
| SA45A       | 50.0                                                | 55.3 | 1.0                              | 45.0                                    | 1.0                                                                           | 6.9                                                        | 72.7                                                        | 52.0                                                                             |
| SA48        | 53.3                                                | 65.2 | 1.0                              | 48.0                                    | 1.0                                                                           | 5.8                                                        | 85.5                                                        | 63.0                                                                             |
| SA48A       | 53.3                                                | 58.9 | 1.0                              | 48.0                                    | 1.0                                                                           | 6.5                                                        | 77.4                                                        | 56.0                                                                             |
| SA51        | 56.7                                                | 69.3 | 1.0                              | 51.0                                    | 1.0                                                                           | 5.5                                                        | 91.1                                                        | 66.0                                                                             |
| SA51A       | 56.7                                                | 62.7 | 1.0                              | 51.0                                    | 1.0                                                                           | 6.1                                                        | 82.4                                                        | 61.0                                                                             |
| SA54        | 60.0                                                | 73.3 | 1.0                              | 54.0                                    | 1.0                                                                           | 5.2                                                        | 96.3                                                        | 71.0                                                                             |
| SA54A       | 60.0                                                | 66.3 | 1.0                              | 54.0                                    | 1.0                                                                           | 5.7                                                        | 87.1                                                        | 65.0                                                                             |
| SA58        | 64.4                                                | 78.7 | 1.0                              | 58.0                                    | 1.0                                                                           | 4.9                                                        | 103                                                         | 78.0                                                                             |
| SA58A       | 64.4                                                | 71.2 | 1.0                              | 58.0                                    | 1.0                                                                           | 5.3                                                        | 93.6                                                        | 70.0                                                                             |
| SA60        | 66.7                                                | 81.5 | 1.0                              | 60.0                                    | 1.0                                                                           | 4.7                                                        | 107                                                         | 80.0                                                                             |
| SA60A       | 66.7                                                | 73.7 | 1.0                              | 60.0                                    | 1.0                                                                           | 5.2                                                        | 96.8                                                        | 71.0                                                                             |
| SA64        | 71.1                                                | 86.9 | 1.0                              | 64.0                                    | 1.0                                                                           | 4.4                                                        | 114                                                         | 86.0                                                                             |
| SA64A       | 71.1                                                | 78.6 | 1.0                              | 64.0                                    | 1.0                                                                           | 4.9                                                        | 103                                                         | 76.0                                                                             |
| SA70        | 77.8                                                | 95.1 | 1.0                              | 70.0                                    | 1.0                                                                           | 4.0                                                        | 125                                                         | 94.0                                                                             |
| SA70A       | 77.8                                                | 86.0 | 1.0                              | 70.0                                    | 1.0                                                                           | 4.4                                                        | 113                                                         | 85.0                                                                             |
| SA75        | 83.3                                                | 102  | 1.0                              | 75.0                                    | 1.0                                                                           | 3.7                                                        | 134                                                         | 101                                                                              |
| SA75A       | 83.3                                                | 92.1 | 1.0                              | 75.0                                    | 1.0                                                                           | 4.1                                                        | 121                                                         | 91.0                                                                             |
| SA78        | 86.7                                                | 106  | 1.0                              | 78.0                                    | 1.0                                                                           | 3.6                                                        | 139                                                         | 105                                                                              |
| SA78A       | 86.7                                                | 95.8 | 1.0                              | 78.0                                    | 1.0                                                                           | 4.0                                                        | 126                                                         | 95.0                                                                             |
| SA85        | 94.4                                                | 115  | 1.0                              | 85.0                                    | 1.0                                                                           | 3.3                                                        | 151                                                         | 114                                                                              |
| SA85A       | 94.4                                                | 104  | 1.0                              | 85.0                                    | 1.0                                                                           | 3.6                                                        | 137                                                         | 103                                                                              |
| SA90        | 100                                                 | 122  | 1.0                              | 90.0                                    | 1.0                                                                           | 3.1                                                        | 160                                                         | 121                                                                              |
| SA90A       | 100                                                 | 111  | 1.0                              | 90.0                                    | 1.0                                                                           | 3.4                                                        | 146                                                         | 110                                                                              |
| SA100       | 111                                                 | 136  | 1.0                              | 100                                     | 1.0                                                                           | 2.8                                                        | 179                                                         | 135                                                                              |
| SA100A      | 111                                                 | 123  | 1.0                              | 100                                     | 1.0                                                                           | 3.1                                                        | 162                                                         | 123                                                                              |
| SA110       | 122                                                 | 149  | 1.0                              | 110                                     | 1.0                                                                           | 2.6                                                        | 196                                                         | 148                                                                              |
| SA110A      | 122                                                 | 135  | 1.0                              | 110                                     | 1.0                                                                           | 2.8                                                        | 177                                                         | 133                                                                              |
| SA120       | 133                                                 | 163  | 1.0                              | 120                                     | 1.0                                                                           | 2.3                                                        | 214                                                         | 162                                                                              |
| SA120A      | 133                                                 | 147  | 1.0                              | 120                                     | 1.0                                                                           | 2.6                                                        | 193                                                         | 146                                                                              |
| SA130       | 144                                                 | 176  | 1.0                              | 130                                     | 1.0                                                                           | 2.2                                                        | 230                                                         | 175                                                                              |
| SA130A      | 144                                                 | 159  | 1.0                              | 130                                     | 1.0                                                                           | 2.4                                                        | 209                                                         | 158                                                                              |
| SA150       | 167                                                 | 204  | 1.0                              | 150                                     | 1.0                                                                           | 1.9                                                        | 268                                                         | 203                                                                              |
| SA150A      | 167                                                 | 185  | 1.0                              | 150                                     | 1.0                                                                           | 2.1                                                        | 243                                                         | 184                                                                              |
| SA160       | 178                                                 | 218  | 1.0                              | 160                                     | 1.0                                                                           | 1.7                                                        | 257                                                         | 217                                                                              |
| SA160A      | 178                                                 | 197  | 1.0                              | 160                                     | 1.0                                                                           | 1.9                                                        | 259                                                         | 196                                                                              |
| SA170       | 189                                                 | 231  | 1.0                              | 170                                     | 1.0                                                                           | 1.6                                                        | 304                                                         | 230                                                                              |
| SA170A      | 189                                                 | 209  | 1.0                              | 170                                     | 1.0                                                                           | 1.8                                                        | 275                                                         | 208                                                                              |

Notes: (1) Pulse test:  $t_p \leq 50\text{ms}$

(2) Surge current waveform per Fig. 3 and derate per Fig. 2

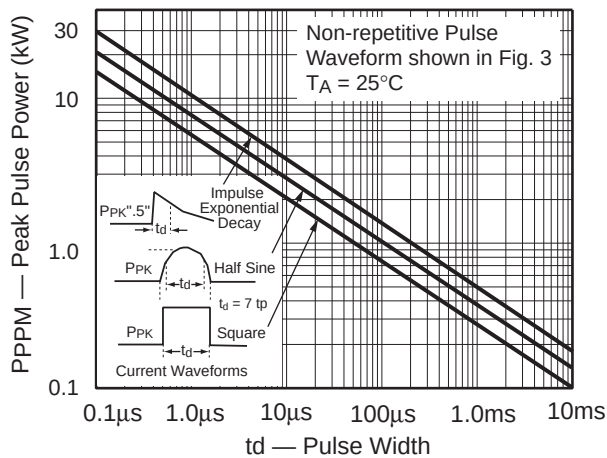
(3) For bidirectional types with  $V_{WM}$  of 10 Volts and less, the  $I_D$  limit is doubled

(4) For the bidirectional SA5.0CA, the maximum  $V_{BR}$  is 7.25V

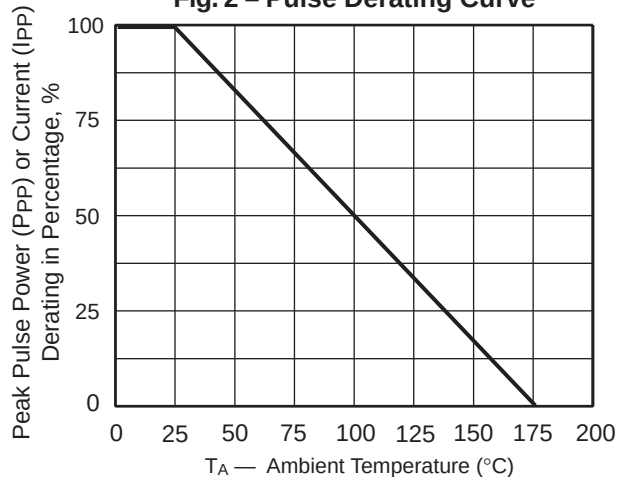
(5) All terms and symbols are consistent with ANSI/IEEE C62.35

## Ratings and Characteristic Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

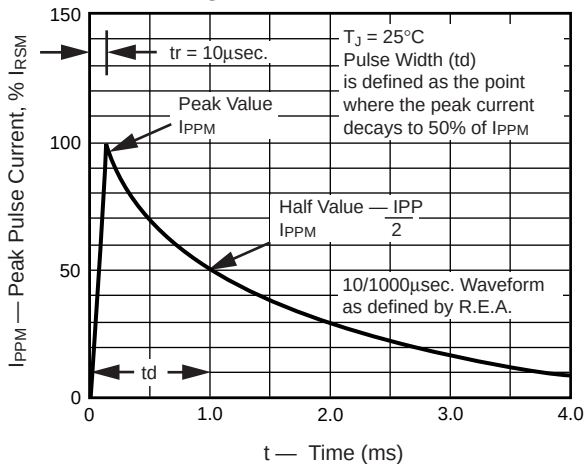
**Fig. 1 – Peak Pulse Power Rating Curve**



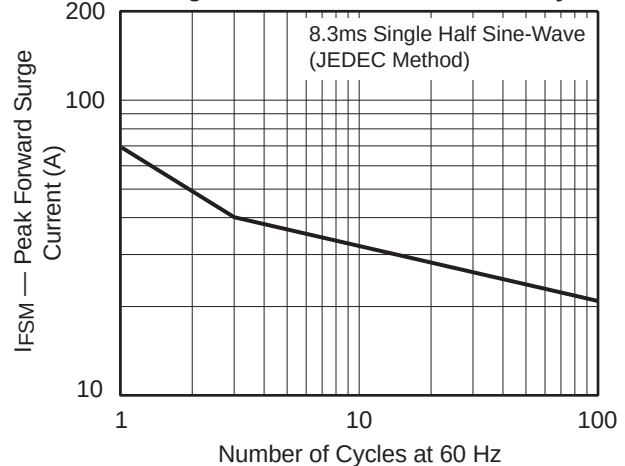
**Fig. 2 – Pulse Derating Curve**



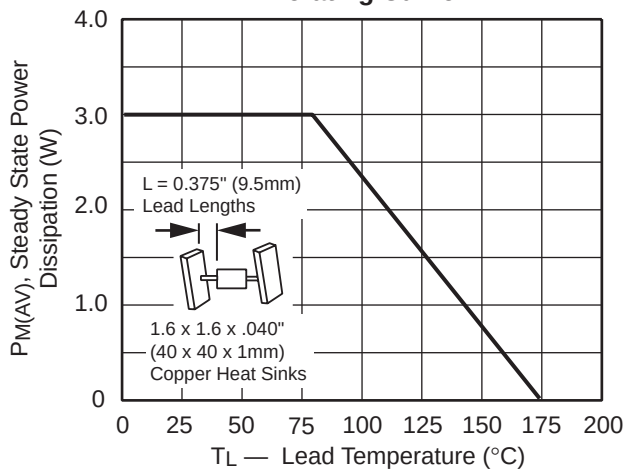
**Fig. 3 – Pulse Waveform**



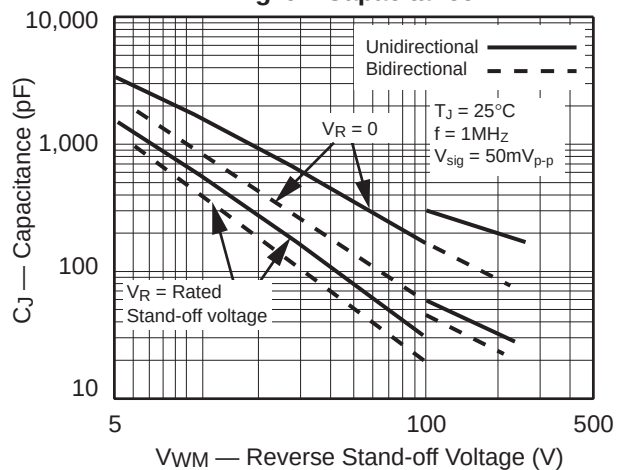
**Fig. 4 - Maximum Non-Repetitive Forward Surge Current Uni-Directional Only**



**Fig. 5 – Steady State Power Derating Curve**



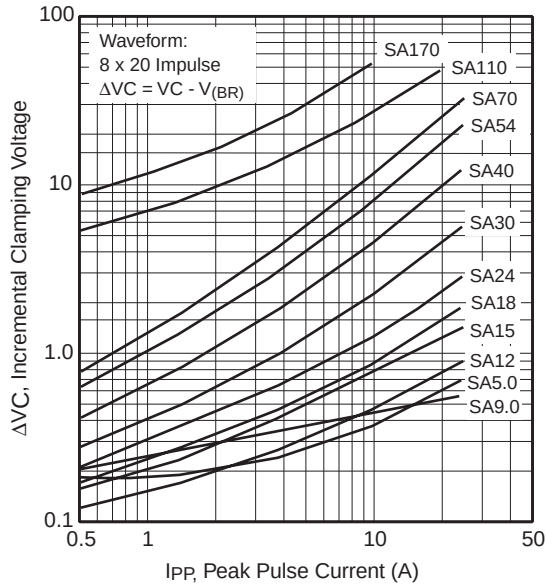
**Fig. 6 – Capacitance**



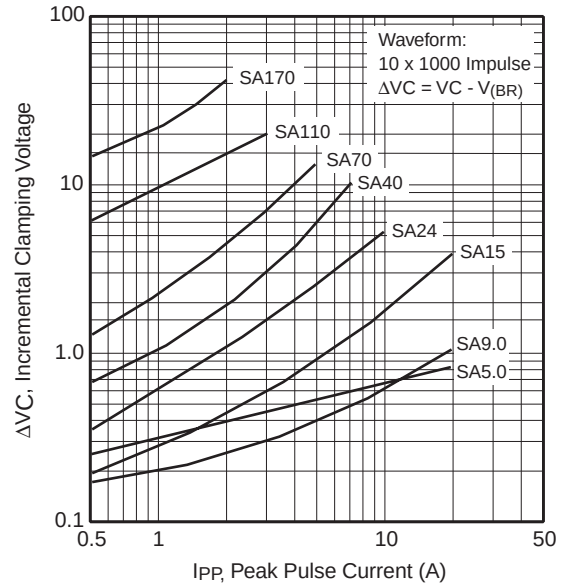


## Ratings and Characteristic Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

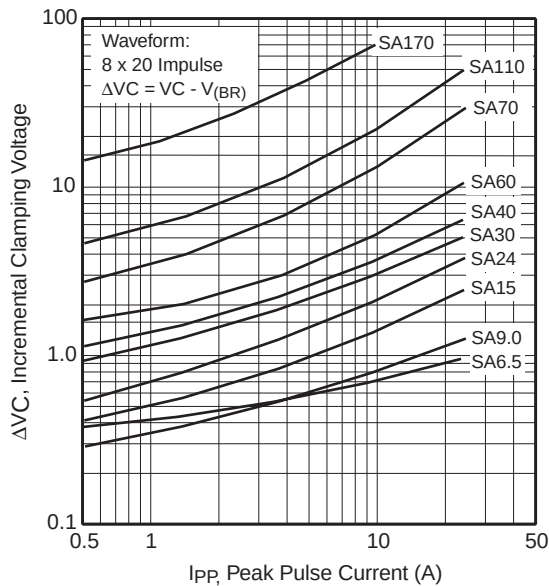
**Fig. 7 – Incremental Clamping Voltage  
Curve Unidirectional**



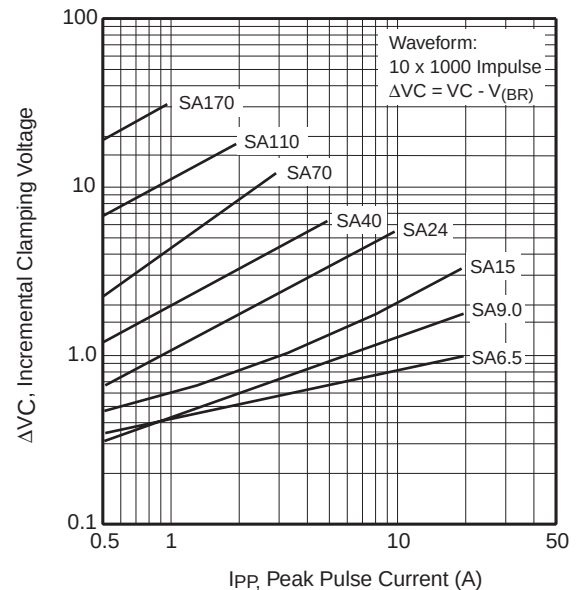
**Fig. 8 – Incremental Clamping Voltage  
Curve Unidirectional**

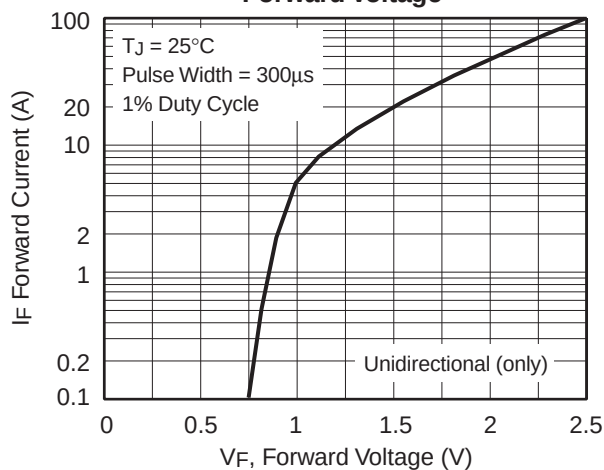
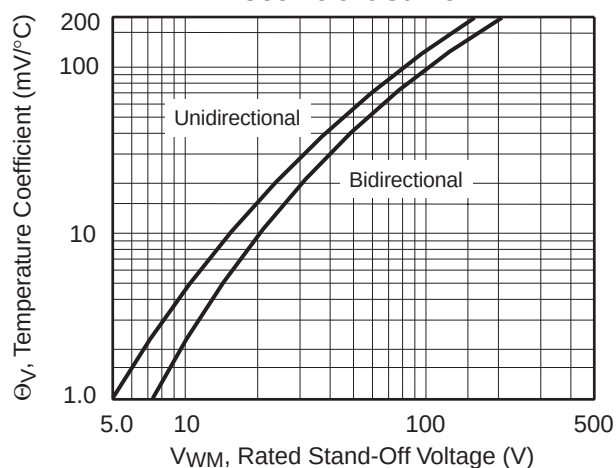


**Fig. 9 – Incremental Clamping Voltage  
Curve Bidirectional**



**Fig. 10 – Incremental Clamping Voltage  
Curve Bidirectional**



**Ratings and  
Characteristic Curves** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)**Fig. 11 – Typical Instantaneous  
Forward Voltage****Fig. 12 – Breakdown Voltage Temperature  
Coefficient Curve**

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